

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2

IL'IN, L.O.

Work of the Section of Turbomachine Mechanics in 1955. Prikl.mekh.
2 no.2:232-233 '56. (MIRA 9:10)
(Turbomachines)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2"

IL'IN, L. A.

"On the Antisymmetric Deformation of a Thin Conic Shell," by
L. A. Il'in, Institute of Construction Mechanics, Academy of
Sciences, Ukrainian SSR, Prykladna Mekhanika, Vol 2, No 4,
1956, pp 392-403

This work studies the elastic deformation of a thin conic shell of constant thickness under the action of an antisymmetric load. Such problems occur, "for example, in the analysis of conic shells in the rotor elements of gas turbine engines, in gyroscopic forces, and in forces resulting from the lateral vibrations of rotors."

The purpose of the article is to obtain a solution to the problem which would be sufficiently accurate and convenient for use in design bureaus. The investigation is based on the method of the complex transformation of equations on the theory of thin shells which, in the solution of the problem on forces and moments, will make possible the presentation of a problem on the antisymmetric stressed state of a shell of rotation in a form similar to that of the axisymmetric problem.

Sum 1239

IL'IN, L.O.

Conference on investigating the power of wheels in turboblowers.
Prykl. zekh. 3 no.1:116-117 '57. (MLRA 10:5)
(Turboblowers)

IL'IN, L.A. [Il'in, L.O.] (Kiyev)

Design of thin conical shells subjected to antisymmetrical loads. Prykl.mekh. 5 no.2:155-166 '59. (MIRA 12:9)

1. Institut stroitel'noy mekhaniki AN USSR.
(Elastic plates and shells)

SOV/21-59-8-7/26

* 16 (1), 24 (5)

AUTHOR: Il'yin, L. O. (Il'in L. A.)

TITLE: Calculation of Closed Rotors of Centrifugal Blowers

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 8,
pp 842 - 846 (USSR)

ABSTRACT: In this article, the author outlines a method for calculating closed rotors (impellers) of centrifugal blowers (Fig. 1) with radial vanes as a constructively orthotropic disk, lacking a plane of symmetry in the elastic stage of work of the material. The method is based on the hypothesis of the invariability of the linear elements parallel to the axis of rotation, and takes into account the action of tension and bending. The covering disk, like the primary one, is taken into consideration on determining the elastic characteristics of the constructively orthotropic disk in its entirety. The problem is reduced to the following system of two linear differential equations of the fourth order:

Card 1/4

SOV/21-59-8-7/26

Calculation of Closed Rotors of Centrifugal Blowers

$$\begin{aligned}
 & rF_r u'' + (rF_r)' u' + \left(v F_\theta' - \frac{F_\theta}{r} \right) u + rS_r \ddot{\varphi} + [(rS_r)' + r\dot{x}_0' F_r] \ddot{\vartheta} + \\
 & + \left[v S_\theta' - \frac{S_\theta}{r} - r\dot{x}_0' F_\theta + (r\dot{x}_0' F_r)' \right] \ddot{\vartheta} - \frac{1-v^2}{E} \left[- \frac{I_{\alpha^2}}{9} r^2 F + rR_{t\alpha}' + (rR_{t\alpha})' \right], \\
 & rS_r u'' + [(rS_r)' - r\dot{x}_0' F_r] u' + \left(v S_r' - \frac{S_\theta}{r} - v\dot{x}_0' F_\theta \right) u + rI_r \ddot{\vartheta} + \\
 & + (rI_r)' \ddot{\vartheta} + \left[v I_\theta' - \frac{I_\theta}{r} + (r\dot{x}_0' S_r)' - 2 \cdot \dot{x}_0' S_\theta - r \dot{x}_{\alpha^2}^2 F_r \right] \ddot{\vartheta} = \\
 & = \frac{1-v^2}{E} \left[- \frac{I_{\alpha^2}}{9} w^2 r^2 S + rM_{t\alpha}' + (rM_{t\alpha})' - r\dot{x}_0' (R_{t\alpha} + R_{t\alpha}) \right]
 \end{aligned}$$

Card 2/4

Calculation of Closed Rotors of Centrifugal Blowers

SOV/21-59-8-7/26

whereby r means radius; u and φ - functions of one change of r ; r, χ - coordinates; ρ - specific weight of the impeller material; ω - angular velocity of circulation; g - acceleration caused by the gravity force; ν - coefficient of Poisson; A, B - indexes (disks and vanes); E - modulus of elasticity. Since the complexity of configuration of the impeller elements impedes the analytic solution of these equations, the author suggests the application of numerical methods. For the calculation of concrete impellers the author used the numerical method of differential equations which is based on the formula of trapezia designed for the calculation of quadratures. The experimental study of the elastic stage of an impeller model cast from organic glass which was conducted at the Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Construction Mechanics of the AS of UkrSSR) showed that the author's calculation data sufficiently coincide with the data of this experiment. A special article will be dedicated to a detailed analysis of the results obtained during the analytic and experimental study of the impeller displacement and elastic stage.

Card 3/4

SOV/21-59-8-7/26

Calculation of Closed Rotors of Centrifugal Blowers

There are 2 figures, 1 diagram and 2 references, 1 of which
is Soviet and 1 Austrian

ASSOCIATION: Institut stroitel'noy mekhaniki AN UkrSSR (Institute of
Construction Mechanics of the AS of UkrSSR)

(F. P. Belyankin),

PRESENTED: By F. P. Belyankin, Member, AS UkrSSR

SUBMITTED: March 16, 1959

Card 4/4

IL'IN, L.O.

PHASE I BOOK EXPLOITATION

SOV/4178

Akademiya nauk Ukrayins'koyi RSR. Instytut budivel'noyi mekhaniky

Zadachi termoprushnosti v energomashynobuduvanni (Problems of Thermoelasticity
in Power-Machinery Construction) Kyyiv, 1960. 176 p. 1,000 copies printed.

Ed. of Publishing House: T.K. Remennik; Resp. Ed.: H.M. Savin, Academician,
Academy of Sciences, UkrSSR; Tech. Ed.: O.M. Lysovets'.

PURPOSE: This book is intended for turbine designers.

COVERAGE: This book is a collection of 8 Ukrainian articles based on work under
the general supervision of A.D. Kovalenko. Each article has a short summary
in Russian. The object of the study is to test turbine elements for stress
conditions, especially those due to nonuniform heating. References accompany
each article.

TABLE OF CONTENTS:

Foreword

3

Card 1/3

Problems of Thermoelasticity (Cont.)

SOV/4178

Kovalenko, A.D. Three-Dimensional Bending of a Circular Plate of Variable Thickness in an Axially Symmetrical Temperature Field

5

The author investigates a thin solid plate with a circular cross section and a profile of thickness which varies symmetrically with respect to the center

Il'yin, L.O. The State of Stress of a Thin Conical Shell in an Axially Symmetrical Temperature Field

28

Shevchenko, Yu.M. The State of Stress of a Circular Symmetrically Loaded Elastic Cylinder With a Varying Modulus of Elasticity

57

Tabieva, G.A. Two-Dimensional Strain of a Cylinder With Axially Symmetrical Nonhomogeneous Characteristics Resulting From Nonuniform Heating

94

Motovylovets', I.O. Nonstationary Thermal Conductivity in a Cylinder of Finite Length

101

Card 2/3

Problems of Thermoelasticity (Cont.)

SOV/4178

Kornienko, V.T., and Z.D. Kostyuk. Investigation of Thermal Stresses in Discs

129

Bobyk, I.S., M.I. Synavskyy, and Yu.M. Shevchenko. Certain Methods of Solving an Axially Symmetrical Problem in the Theory of Elasticity by Means of a Grid Integrator

146

Kornienko, V.T. Investigation of Thermal Stresses in a Circular Plate of Varying Thickness by Means of the "Integral 1" Differential Analyzer.

164

AVAILABLE: Library of Congress

Card 3/3

AC/nl/sfm
10/4/60

IL'IN, L.A. [Il'in, L.O.] (Kiyev)

Stressed state of impellers of centrifugal blowers. *Prykl.mekh.*
6 no.1:46-53 '60. (MIRA 13:6)

1. Institut stroitel'noy mekhaniki AN USSR.
(Impellers)

IL'IN, L. A.

PHASE I BOOK EXPLOITATION

SOV/6086

Nauchnoye soveshchaniye po teplovym napryazheniyam v elementakh turbomashin.
2d, Kiyev, 1961.

Teplovyye napryazheniya v elementakh turbomashin; doklady nauchnogo soveshchaniya, vyp. 2 (Thermal Stresses in Turbomachine Parts; Reports of the Scientific Conference, no. 2). Kiyev, Izd-vo AN UkrSSR, 1962. 174 p. 1800 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut mehaniki.

Resp. Ed.: A. D. Kovalenko, Academician, Academy of Sciences UkrSSR; Ed.: T. K. Remennik; Tech. Ed.: A. M. Lisovets.

PURPOSE: This collection of articles is intended for scientific workers and turbine designers.

Card 1/0

3

Thermal Stresses (Cont.)

SOV/6086

COVERAGE: The book contains 18 articles dealing with investigations connected with thermal stresses in turbine components. Individual articles discuss thermoelasticity, thermoplasticity, thermal conductivity, and temperature fields. No personalities are mentioned. References accompany 17 articles. The conference recommended broadening the theoretical and experimental investigations of aerothermoelastic and aerothermoplastic problems, the development of investigations of general problems of the theory of thermoelasticity and thermoplasticity based on the thermodynamic principles of reversible and nonreversible processes, the development of effective calculation methods for thermal stresses taking into account plastic deformations and creep in thin- and thick-walled structural members under stationary and nonstationary operating conditions, the development of experimental-research methods for thermometry and tensiometry in connection with modern operational conditions of mechanical structures, and the broadening of investigations of problems in the thermostrength of structures, especially of those operating under conditions of frequent and sharp temperature changes.

Card 2/8

3

SOV/6086

Thermal Stresses (Cont.)

TABLE OF CONTENTS:

Introduction (A. D. Kovalenko, Academician, Academy of Sciences UkrSSR)	3
Kovalenko, A. D. [Kiyev]. Generalization of Some Problems of the Theory of Calculating Thermal Stresses in Conic Shells	7
Grigorenko, Ya. M., and L. A. Il'ip [Kiyev]. Complex Equations of the Theory of Thin Shells With Temperature Influences Taken Into Account	27
Motovilovets, I. A. [Kiyev]. Thermal Stresses in Disks With Tempera- ture Changing Along the Thickness	34
Grinchenko, V. T. [Kiyev]. Stationary Thermal Stresses in a Solid Finite- Length Cylinder	41
Veytsman, R. I. [Leningrad]. Nonstationary Thermal Stresses in an Elastic Half-Space During a Local Change in Surface Temperature	49

Card 3/4 3

S/879/62/000/000/023/088
D234/D308

AUTHORS: Grigorenko, Ya. M. and Il'in, L. A. (Kiev)

TITLE: Stressed state of a conical shell subject to cyclic force
and temperature actions

SOURCE: Teoriya plastin i obolochek; trudy II Vsesoyuznoy konfe-
rentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo
AN USSR, 1962, 173-176

TEXT: The authors choose the initial equations in the form pro-
posed by V. V. Novozhilov, expand the corresponding functions in
to Fourier series and reduce the equations to a single differential
equation of the fourth order. The resolvent function is obtained
as a power series, with recurrence formulas for the coefficients.
The solution makes it possible to construct programs for use with
computers. There is 1 figure.

Card 1/1

AM4033673

BOOK EXPLOITATION

S/

Kovalenko, Anatoliy Dmitriyevich; Grigorenko, Yaroslav Mikhaylovich; Il'in, Leonid
Alekseyevich

Thin conical shell theory and its application in machine construction (Teoriya
tonkikh konicheskikh obolochek i yeye prilozheniya v mashinostroyenii) Kiev,
Izd-vo AN USSR, 63. 0286 p. illus., biblio. 2,600 copies printed. (At head
of title: Akademiya nauk Ukrainskoy SSR. Institut mehaniki)

TOPIC TAGS: cylindrical sheet, thin shell, conical shell, stress calculation,
thermal stress, stress load, nonlinear shell structure theory, hypergeometric
functions

PURPOSE AND COVERAGE: The book is devoted to the theory of thin conical shells of
revolution used as structural elements in machine building. Equations are derived
for stresses in conical shells of constant and variable thickness with arbitrary
angle of aperture under axially-symmetrical, antisymmetrical, and cyclic loading,
and also under uneven heating due to a three-dimensional temperature field. These
problems are solved in terms of special functions, and methods are presented for
designing conical shells and elastic systems which contain such shells, based on

Card 1/3

AM4033670

the use of tables of exact calculations with the aid of electronic digital computers. The stress state and the stiffness of conical shells are analyzed under different geometrical parameters and forms of load; the analysis is accompanied by examples. The book is intended for scientific workers and engineers engaged in research, design, and strength calculations for thin-wall machine elements. The authors thank N. A. Lobkova of Institut mehaniki AN UkrSSR for help with the preparation of the manuscript.

TABLE OF CONTENTS [abridged]:

Foreword --	3
Ch. 1. Fundamental equations --	5
Ch. 2. Axially symmetrical deformation of conical shells --	50
Ch. 3. Antisymmetrical deformation of conical shells --	135
Ch. 4. Cyclic deformation of conical shells --	219
Ch. 5. Application of the theory of conical shells to the design of machine parts --	234
Appendix. Properties of hypergeometric functions --	272
Literature --	284

Card 2/3

AP4033670

SUB CODE: AS

SUBMITTED: 29Nov63

MR REF Sov: 040

OTHER: 007

DATE ACQ: 16Apr64

Card 3/3

IL'IN, L.A. [Il'in, L.O.] (Kiyev)

Differential equations for the elastic equilibrium of shells
of revolution with meridional ribs under force and temperature
loads. Prykl. mekh. 10 no.3:254-262 '64. (MIRA 17:6)

1. Institut mekhaniki AN UkrSSR.

ACC NR: AM7003446

Monograph

UR/

Kovalenko, Anatoliy Dmitriyevich; Grigorenko, Yaroslav Mikhaylovich; Il'in,
Leonid Alekseyevich; Polishchuk, Tat'yana Ivanovna

Calculation of conical shells subjected to antisymmetric stresses (Raschet konicheskikh obolochek pri antisimmetrichnykh nagruzakh) Kiev, Naukova dumka, 66. 0494 p. tables. (At head of title: Akademiya nauk Ukrainskoy SSR. Institut mekhaniki) Errata slip inserted. 2,800 copies printed.

TOPIC TAGS: calculation, conic shell structure, conic shell, circular plate, nonlinear shell structure, turbine, elastic element, loading, antisymmetric loading

PURPOSE AND COVERAGE: The book presents a method of calculating antisymmetrically stressed conical shells and other elastic systems consisting of rings, circular plates, and cylindrical and conical shells, used as structural parts in construction of turbines and other machinery. Formulas and tables for calculating the above elastic elements are given. The tables are based on analytical solutions obtained using a BESM-2M digital computer. The book is intended for engineers, technicians, and specialized scientific workers in research, construction, and strength calculations of thin-walled machine elements.

Card 1/3

ACC NR: AM7003446

The authors express their gratitude to N. A. Lobkova, scientific coworker of the Institute of Mechanics, AN SSSR, for helping in preparing the manuscript for publication, and to engineer G. P. Golub for assisting in the compilation of tables.

TABLE OF CONTENT [abridged]:

Foreword -- 3

- Ch. 1. General comments -- 5
- Ch. 2. Antisymmetrical loading -- 8
- Ch. 3. Antisymmetrical displacements and deformations -- 12
- Ch. 4. Calculation method -- 17
- Ch. 5. Formulas for calculation of rings -- 29
- Ch. 6. Analysis of elastic systems consisting of rings, plates, and shells of revolution -- 33
- Ch. 7. Comments on formulas and tables of particular solution -- 44
- Ch. 8. Conic shell of constant thickness -- 46
- Ch. 9. Circular plates of constant thickness -- 53
- Ch. 10. Cylindric shell of constant wall thickness -- 55

Card 2/3

ACC NR: AM7003446

- Ch. 11. Conic shell of variable linear thickness -- 58
Ch. 12. Circular plates of variable linear thickness -- 62
Ch. 13. Examples of calculations -- 64

Tables of particular solutions for calculating shells of constant thickness -- 75

Tables of particular solutions for calculating plates of linear variable thickness -- 117

Tables of particular solutions for calculating shells of linear variable thickness -- 129

SUB CODE: 21/ SUBM DATE: 19Aug66

Card 3/3

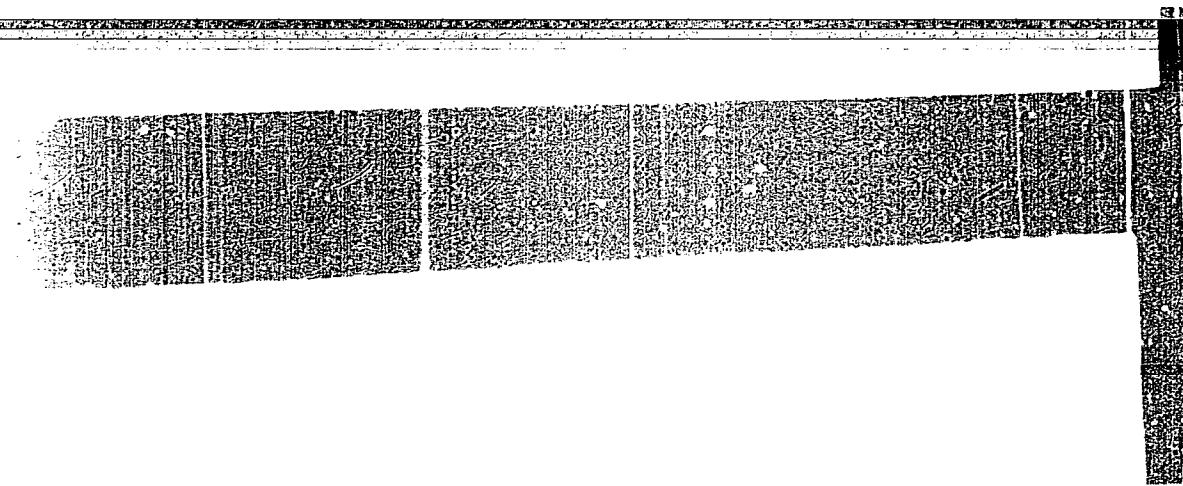
IL'IN, L.B.

Study of the accuracy of the performance of the STD-2 topo-
graphic stereometer. Geod. i kart. no. 3:32-43 Mr '63.
(MIRA 16:7)

(Photogrammetry—Equipment and supplies)

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CIA-RDP86-00513R000518430008-2

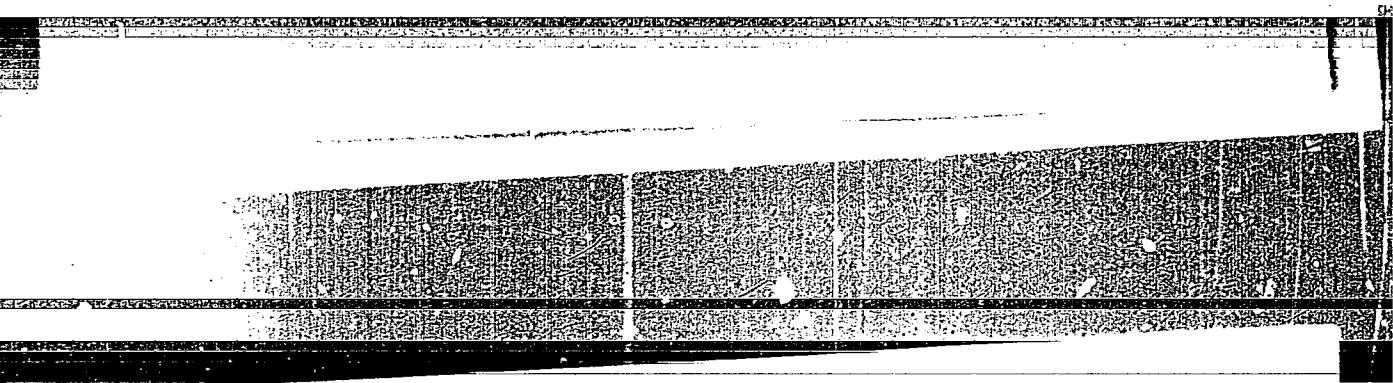


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CIA-RDP86-00513R000518430008-2"

IL'IN, L.M., inzh. (Leningrad)

Is there a need for standard processes? Put' i put. khoz.
(MIRA 18:11)
9 no.11:32-33 '65.

IL'IN, L.N., inzh. (Leningrad)

For the control of the track level. Put' i put.khoz.
no.11:31 X '59. (MIRA 13:4)
(Railroads—Track)

IL'IN, Lev Mikhaylovich; RYABINOV, Mark Grigor'yevich; FISENKO, V.I.,
retsenzent; KOLTUNOVA, M.P., red.; VOROTNIKOVA, L.F., tekhn.
red.

[Establishing norms for track work and its technology] Normiro-
vaniye putevykh rabot i ikh tekhnologii. Moskva, Transzheldorizdat,
1962. 163 p. (MIRA 15:6)
(Railroads—Maintenance and repair)
(Production standards)

BRUSLINSKIY, B.A., inzh.; IL'IN, L.N., inzh.; KROTMAN, L.S., inzh.

Measurement of the temperature of the oil film on the thrust bearing
of a hydrogenerator of the Irkutsk Hydroelectric Power Station.
Vest. elektroprom. 32 no.6:26-28 Je '61. (MIRA 16:7)
(Turbogenerators)

BRUSLINSKIY, B.A., inzh.; IL'IN, L.N., inzh.; KROTMAN, L.S., inzh.

Experimental study of the thrust bearing of the hydrogenerator of
the Irkutsk Hydroelectric Power Station. Elek. sta. 32 no.12:16-
18 D '61.
(MIRA 15:1)
(Irkutsk Hydroelectric Power Station) (Turbogenerators--Testing)

L 12768-66 ENT(u)/EMP(v)/T/EMP(t)/EMP(k)/EMP(p)/EMP(w)
ACC NR: AP6002583

SOURCE CODE: UR/0286/65/000/023/0080/0080

INVENTOR: Lazarev, A. N.; Prokoshkin, D. A.; Il'in, L. S.; Shlykov, O. P.; Tarayeva, M. I.; Novoselov, A. S.; Barashkov, M. A.

ORG: none

TITLE: Brazing alloy for soldering. Class 49, No. 176784

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 80

TOPIC TAGS: brazing, titanium, titanium brazing

ABSTRACT: This Author Certificate introduces a copper-base brazing alloy for titanium. To lower the melting temperature of the alloy and to increase the strength of joints, the alloy contains 2-4% aluminum, 4-6% tin, 24-26% titanium, and the rest copper. [ND]

SUB CODE: 13/11/ SUBM DATE: 12May64/ ATD PRESS: 4184

Card 1/1 HU

UDC: 621.791.36:669.295

IL'IN, M.

Obstacles which should be removed. Sov. profsoiuzy 19 no. 8:
21-22 Ap '63.
(MIRA 16:6)

1. Instruktor Krasnodarskogo krayevogo soveta professional'nykh
soyusov.

(Krasnodar Territory—Sanatoriums)
(Krasnodar Territory—Construction industry)

IL'IN, M.

Our Katia. Sov. profsoiuzy 19 no.19:28 O '63. (MIRA 16:11)

1. Starshiy instruktor sel'skogo krayevogo soveta professional'nykh soyuzov, Krasnodar.

IL'IN, Mikhail Aleksandrovich

[The condition necessary for the triumph of communism]
Neobkhodimoe uslovie pobedy kommunizma. Moskva, Gos-
politizdat, 1962. 54 p.
(Russia--Economic policy) (MIRA 16:9)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2

IL'IN, Mikhail Andreevich, 1903- jt. au.

Ancient Moscow Province; monuments of architecture 15th - 17th centuries
Moskva : Gos. arkhitekturnoe izd-vo, 1947. 116 p. (52-36823)

NA1197.M6V6

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2"

NEVZOROVA, G.V., arkhitektor [reviewer]; KAUFMAN, S.A.; IL'IN, M. [authors].

Masters of Soviet architecture (book review). G.V.Nevzorova. Gor.khoz.Mosk.
21 no.2:47-48 p '47. (MLRA 6:11)
(Shchuko, Vladimir Alekseevich, 1878-1939) (Fomin, Ivan Aleksandrovich)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2

IL'IN, Mikhail Andreevich, 1903-

Ryazan; historical and architectural study. Moskva. Gos. izd-vo lit-ry po stroitel'stvu i arkhitektury. 1954.

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CIA-RDP86-00513R000518430008-2"

USSR/ Scientists - Architect

Card 1/1 : Pub. 77 - 19/22

Authors : Il'in, M. A., candidate in Art. Scs.

Title : Vasiliy Ivanovich Bazhenov

Periodical : Nauka i Zhizn! 8, 41-42, Aug 1954

Abstract : A short biographical sketch is given in commemoration of the 150th anniversary of Vasiliy Ivanovich Bazhenov, a great Russian architect. Illustrations.

Institution :

Submitted :

IL'IN, M.

Il'in, M. "Land reclamation," (On the V. V. Dokuchayev. Summary), Ogonek, 1949, No. 3, p. 14-16

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Stately, No. 4, 1949).

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2

IL'IN, M.

IL'IN, M. "The law of increasing fertility" (On works of V.T. Vil'yams),
ogonek, 1949 No. 10 p 9-12 with portrait.

SO: U-3261 10 April 53 (Letopis 'Zhurnal 'nykh Statey No. 11 1949)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2"

IL'IN, M.

22524 Il'in, M. Starchii Iz Trekh (Pochvoved P. A. Kostychev Olherk)
 Ill O Vereiskii Ogonek 1949, No. 28, S 14-16 S Portr.

SO: Letopis No. 30, 1949

II IN, E-1-H.

PAVLOVSKIY, Ye.N., akademik, redaktor; BARANOV, P.A.; IL'IN, M.A., professor, doktor biologicheskikh nauk, redaktor; GRIGOROV, V.P., redaktor; ZALINISKIY, O.V., redaktor; KRISHTOFOVICH, A.N., redaktor [deceased]; LARIN, I.V., zasluzhennyy deyatel' nauki, professor, redaktor; MALYUGIN, Ye.A., redaktor; RODIN, L.Ye., redaktor; SHARAPOV, N.I., redaktor; BOLOVIN, M.M., redaktor; LITKEVICH, S.V., redaktor; PIVZNER, R.S., tekhnicheskiy redaktor

[U.S.S.R. waste lands and their reclamation] Pustyni SSSR i ikh osvoenie. Moskva, Izd-vo Akademii nauk SSSR. Vol. 2 1954. 801 p.
[Microfilm] (MLRA 8:2)

1. Akademiya nauk SSSR. Botanicheskiy institut. 2. Chlen-korrespondent Akademii nauk SSSR (for Krishtofovich, Pavlovskiy).
(Reclamation of land) (Phytogeography)

ZHURIKOV, V.N.; IL'IN, M.A.; KRASAVIN, N.N.; PISKUNOV, V.T.;
RUSINOV, I.V.; SUVOROVA, L.I.; TSIKOTO, I.A.;
KONOVALOV, L., red.; MUKHIN, Yu., tekhn. red.

[Reader in agricultural economics] Kniga dlia chtenija po
ekonomike sel'skogo khoziaistva. Moskva, Politizdat,
1963. 287 p. (MIRA 17:1)

IL'IN, M. G.

IL'IN, M. "A moving factory", (The history of the lathe), illustrated by L. Smekhov, Tekhnika - molodezhi, 1949, No. 1, p. 29-31, (Continuation follows).

SO: U-3042, 11 March 53, ("etopis 'Zhurnal 'nykh Statey, No. 7 1949).

IL'IN, M. G.

"Investigation of the Profiling Process of an Abrasive Worm Gear." Cand
Tech Sci, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, Min
Higher Education USSR, Moscow, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2

IL'IN, M.G.

Cold knurling of small-module gears. Priborostroenie no. 4:26-29
Ap '56. (MLRA 9:8)

(Gear cutting)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2"

IL'IN, N.I., khirurg, glavnnyy vrach

Gastroenterostomy with a ligature of vessels of the gastric and intestinal submucosa. Sov.med. 17 no.6:39 Je '53. (MLRA 6:6)

1. Zav'yalovskaya rayonnaya bol'nitsa Udmurtskoy ASSR.
(Stomach--Surgery) (Intestines--Surgery) (Ligature (Surgery))

COUNTRY : USSR M
CATEGORY : Cultivated Plants, Grains, Leguminous Grains.
Tropical Cereals.

DOC. JOURN : Ref Zhur - Selskogo, No. 1, 1959, No. 1/35

AUTHOR : Il'in, V.T.

LIST : —

TITLE : The Optimum Number of Plants per Hectare

ORIG. PUB.: Kukuruz, 1958, No. 5, 28-29

ABSTRACT : No abstract.

CARD: 1/1

IL'IN, M.I.; ZVOSKOVA, N.S., starshiy agronom; LEYN, Z.Ya.; ZVIAGINTSEVA, Y.S.; MARINICH, P.Ye., red.; ZABORSKIY, N.I., red.; PECHENKIN, I.V., tekhn. red.

[New corn hybrids Bukovine 3 and Bukovina 2; results of stale crop variety tests] Novye gibridy kukuruzy Bukovinskii 3 i Bukovinskii 2; rezul'taty gosudarstvennogo sortoispytaniia. Moskva, Izd-vo M-va sel'. khoz. SSSR, 1960. 45 p. (MIRA 14:8)

1. Russia(1923- U.S.S.R.) Gosudarstvennaya komissiya po sorto-
ispytaniyu sel'skokhozyaystvennykh kul'tur. 2. Zavedyushchaya
khimicheskoy laboratoriyej Gosudarstvennoy komissii po sorto-
ispytaniyu sel'skokhozyaystvennykh kul'tur pri Ministerstve sel'-
skogo khozyaystva SSSR (for Leyn). 3. Zamestitel' predsedatelya
Gosudarstvennoy komissii po sortoispytaniyu sel'skokhozyaystven-
nykh kul'tur pri Ministerstve sel'skokhozyaystva SSSR (for
Marinich).

(Corn (Maize)—Varieties)

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[Corn varieties and hybrids] Sorta i gibridy kukuruzy. 3. izd., ispr. i dop. Leningrad, Sel'khozisdat, 1962. 156 p.

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PRUTSKOVA, M.G., kand. sel'khoz. nauk; UKHANOVA, O.I.; SAKHAROVA, L.I.;
BOLSUNOVSKAYA, O.V.; IVANOVA, N.Ye.; LOVCHIKOV, I.S.; ZALKIND,
G.N.; IL'IN, M.I.; KOZ'MINA, K.A.; SHIKUT', V.A.; PETROVA,
Z.V.; GENERALOV, G.F.; BUDYUK, V.P.; COMENYUK, L.I., red.

[New highly productive varieties of grain crops] Novye vysoko-
produktivnye sorta zernovykh kul'tur. Moskva, Kolos, 1965.
319 p.
(MIRA 18:8)

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Il'in, M. M. -- "Measurement of the Microflora of Meat Frozen in Blocks When It Is Kept for a Long Time." Min Higher Education USSR, Leningrad Veterinary Inst, Leningrad, 1955 (Dissertation for the Degree of Candidate in Veterinary Sciences)

SO: Knizhnaya Letopis', No. 24, Moscow, Jun 55, pp 91-104

ZAGAYEVSKIY, I. S. (Professor); MERKUSHEV, A. V. (Professor) and IL'IN, M. M.
(Assistant) About the book

"Laboratory and Practical Studies in Veterinary-Sanitary Examination"
(A review of the book written by G. V. Kolobototskii, M. Sel'khozgiz,
1960)

Veterinariya, vol. 39, no. 5, May 1962 p. 85

S/048/63/027/003/021/025
B106/B238

AUTHORS: Il'in, M. M., Solov'yev, A. M., Vertsner, V. N.,
Dutov, G. G., Kolchev, B. S., and Toporkov, S. A.

TITLE: A commercial MAP-1 (MAR-1) instrument for X-ray
microanalysis

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,
v. 27, no. 3, 1963, 420-426

TEXT: This paper describes in detail a new MAP-1 (MAR-1) X-ray micro-analyzer developed and tested in the Krasnogorskiy mekhanicheskiy zavod (Krasnogorsk Machine Plant). The instrument consists of the recorder, and of the microanalyzer itself, comprising the electron-optical system providing the electron probe, 2 X-ray spectrometers, a specimen chamber with an optical microscope, the electrical input circuit, and the vacuum system. The electron source is a three-electrode gun with an automatic negative shift. The optical microscope makes it possible to observe the surface of the specimen at a magnification of 450 X, the resolution being $< 1\mu$. The non-vacuum spectrometer analyzes X-rays with a wave-

Card 1/2

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B106/B238

A commercial ...

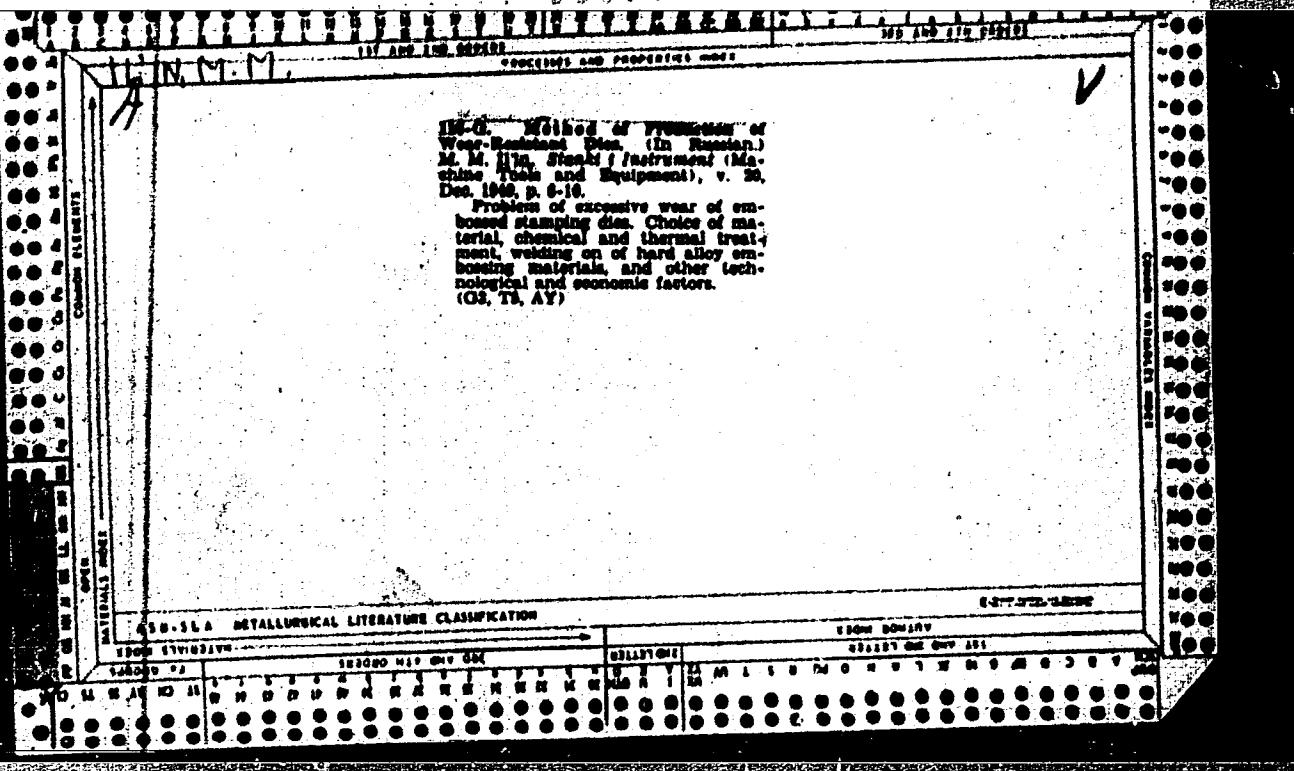
length of up to 1.5 \AA , and the vacuum spectrometer those from 1.5 to 10 \AA° . The spectra are analyzed using Johann's method. The Bragg angles range from 18 to 40° . The analyzer crystals are (1340) quartz crystals with a radius of curvature of 500 mm . The diameter of the X-ray source is $1-2 \mu$; this value depends on the diameter of the electron probe, which is $\leq 1\mu$. The amperage in the focused probe, is about 10^{-6} A and the current stability amounts to 0.5% per hour. The instrument makes determinations on the specimen possible in the $1-2 \mu$ range. When the specimen is impermeable, the change in the Bragg angle of the elements from Mg to U can be determined by using both spectrometers. The distribution of the element in the specimen to be determined in the given direction can also be determined. This is done by displacing the specimen under the electron probe with an electric motor at a fixed Bragg angle corresponding to a characteristic frequency. The dispersion and sensitivity of the instrument were studied; the sensitivity in an analysis of copper via the K_{α} doublet was $< 0.1\%$. There are 8 figures.

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(MIRA 8:4)
(Dies (Metal-working) — Welding)

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IL'IN, M.M.; SHOFMAN, L.A., kandidat tekhnicheskikh nauk, retsenzent; KUZNETSOVA, A.G., izdatel'skiy redakter; KOKHTEV, A.A., inzhener, redaktor; ROZHIN, V.P., tekhnicheskiy redaktor.

[Production of one-piece steel ring blanks] Proizvedstvo stal'nykh tsel'nokatanykh kolets-zagotovok. Moskva, Gos.isd-vo eber.promyshl. 1957. 126 p. (MIRA 10:4)

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alloys for forging and stamping. Kuz.-shtam.proizv. 1 no.4:
29-32 Ap '59. (MIRA 12:10)
(Heat resistant alloys--Heat treatment)
(Forging)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2

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APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518430008-2"

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DUTOV, G.G.

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See "Petrarcha Collection," 1916, 16.
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Medicine - Plants

Jan/Feb 48

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A. N. Krashenovitch, 2 pp

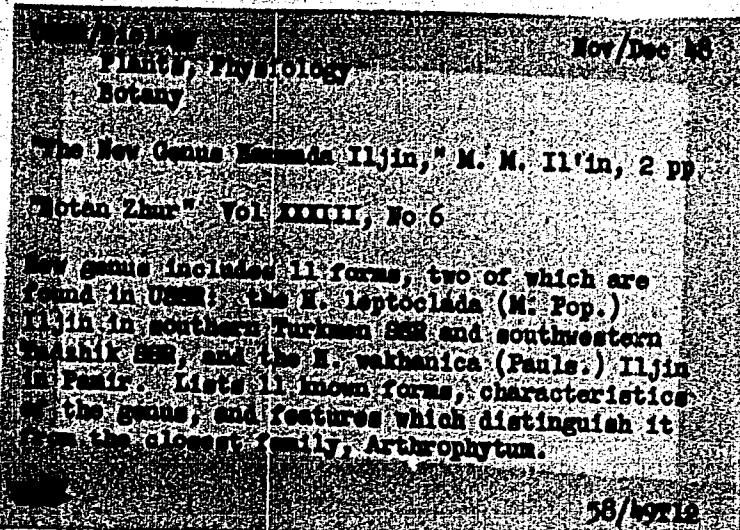
"Botan Zhur" Vol XXXIII, No 1

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publishing a work on it. Program was put into
effect as a result of a decree from the Presidium
of the Standing Committee on the History of USSR
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36/49T34

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58/49T12



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No. 12. A: 6-10.

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Editors: IL'IN, M. M.; NEKRASOVA, V. L.; NIKITIN, A. A.; FEDOROV, Al. A.; GAMMERMAN, GUSYNIN, I. A.
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Compilers: ILIN, M. M.; KLOKOV, M. V.; MALEYEV, V. P.; MURAV'YEV, O. A.; POBEDIMOVA, Ye. G.; POYARKOVA, A. I.; PROKHANOV, Ya. I.; SHISHKIN, B. K.; SHTEYNIERO, Ye. I.; YUZEPCHUK, S. V.; AFANAS'YEV, K. S. BORISOVA, A. G.; VASIL'YEV, V. N.; GORSHKOVA, S. G.; KOMAROV, V. L. (Acad.); Editors: SHISHKIN, B. K.; BOBROV, Ye. G.

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SO: Monthly List of Russian Accessions, Library of Congress, September 1952 1952, Uncl.

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M.M., doktor biologicheskikh nauk, professor, redakteur; KONOVALOV,
T.N., doktor biologicheskikh nauk, professor, redakteur; SATSIPEROVA,
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VASIL'YEV, V.N., prof., red.; PIGULEVSKIY, G.V., prof., red.;
SOKOLOV, V.S., prof., red.; FEDOROV, A.A., prof., red.;
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